AGENDA ITEM NUMBER 2

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Topics

- Fiber to the Desktop for C2 Facilities
- Fiber to Barracks
- Barracks Telecommunications Rooms

Fiber to the Desktop for C2 Facilities

- First edition of the standard design had
  - 1 copper for voice
  - 4 data fiber (8 strands)
- Changed to:
  - “one category-6 Unshielded Twisted Pair (UTP) cable for voice and four connections for data with either four two-strand multimode fiber optic cables, four category-6 UTP cables, or a combination of Cat 6 and multimode fiber (four total).”

Fiber to the Desktop for C2 Facilities

- Pros:
  - Bandwidth - support 100 Gbps and beyond
  - Ease of installation
  - Stable test parameters
  - Consolidate electronics and patching
  - Longer lengths possible (under consideration by TIA)
- Cons:
  - More costly for electronics
  - May need converters
  - Does not support Power over Ethernet (PoE)

Fiber to Barracks

- Currently not approved in AR 415-15
- DSL used for data
- 6-strands to each barracks building would be reasonable and sufficient
- Would facilitate an all-fiber backbone for the CAN
- Discussion?

Barracks Telecommunications Rooms

- Standard I3A/TIA-569 TRs may be too large for Barracks
- ACSIM letters recommend 7x10 or 6x8
- Maintain 7x10 main TER
- Specify 6x8 on multi-story facilities
- Allow telecommunications enclosures in non-linear designs (garden style housing)
- Save living space in Barracks
- Future conversion would require renovation project either way

Background